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WHAT IS CLAIMED IS:

1. An immunoenzymatic assay for detection of antibody by using the equine infectious anemia virus recombinant gp90 envelope antigen in animal test samples comprising:

- (a) the use of the recombinant gp90 (rgp90) envelope protein from the equine infectious anemia virus,
(b) binding of the recombinant gp90 envelope antigen to a solid support,
(c) reacting the bound antigen with a test sample of serum,
(d) removing the unbound test sample,
(e) reacting the bound test antibody with a labeled antibody
(f) measuring the amount of bound antibody specific to the equine anemia infectious virus gp 90 envelope antigen in the test sample

2. The immunoassay according to claim a, wherein said label is selected from the group consisting of an enzyme, a fluorescent marker, ^{and} avidin-biotin.

3. The immunoassay according to claim 1, wherein said solid support is selected from the group consisting of polystyrene or ^{polypropylene} ~~polypropylene~~ microtiter wells; polyethylene, polypropylene, polycarbonate, polyvinyl, polystyrene, ^{and} ~~or~~ glass test tubes, capillary tubes, dipsticks, or beads; latex beads; nitrocellulose, ^{and} nylon; ^{and} cellulose, polyacrylamide, cross-linked dextran and microcrystalline glass.